

FOLIO

University of Alberta

30 April 1987

Renowned Scientist to Head Biotechnology Centre

Aladar Szalay has been appointed to the newly established Research Chair in Plant Biotechnology and will head the new Biotechnology Centre in Plant Science, Faculty of Agriculture and Forestry. The chair was established with a \$250,000 grant from Canadian Pacific Ltd. and matching support from Alberta Agriculture.

The Faculty estimates that Dr. Szalay's appointment will advance agricultural biotechnology in the province by 10 years. He is expected to take up his duties 1 May.

Dr. Szalay, a molecular biologist, is currently a biochemist at the Boyce Thompson Institute for Plant Research and an adjunct professor with the division of biological sciences at Cornell University.

As the coordinator of Cornell's Biotechnology DNA Synthesis Service Facility, Dr. Szalay's research interests focus on plant molecular genetics. A typical project could involve taking new genetic information (obtained by manipulation) and introducing it into a single cell of a plant leaf. The result could be a new plant with more desirable characteristics . . . hardier, more productive or more adaptable to short growing seasons.



Dr. Szalay familiarizes himself with the Plant Science set up.

In addition to the agricultural benefits of the research, it also has medical and industrial applications. The research will enable the design of new genes which when introduced could produce a modified new plant. This modified plant could then provide medically significant chemicals or natural food additives or flavors.

A graduate of the Institute of Biochemistry and Plant Physiology, German Academy of Sciences, and Martin Luther University, Halle/Saale, Germany, Dr. Szalay joined Cornell University in 1977. (Earlier in the 1970s, he was a postdoctoral associate at the California Institute of Technology in biological chemistry and a senior

James Appointed Vice-President (Research)

As *Folio* was going to press, it was announced that C.R. (Bob) James has been appointed Vice-President (Research).

Dr. James, currently Chairman of the Department of Electrical Engineering, will assume the Vice-Presidency on 1 July.

Full details in next week's *Folio*. □

scientist at the Biological Research Centre at the Hungarian National Academy of Sciences.)

Research at the Biotechnology Centre will be directed at lowering production costs and developing plants with higher value products. The development of new plants and accelerated improvement of known varieties will both be possible. Biotechnology will also be applied to animal improvement to enhance favorable traits such as growth rate, reproduction and milk production and quality. As well, the Centre will seek to provide new opportunities in food science and pest control.

In 1986, the University established positions in Animal Biotechnology, Oilseeds Biotechnology and Forest Biotechnology. These are junior positions which will be under the direction of Dr. Szalay.

Research in biotechnology undoubtedly improves the viability and competitiveness of agriculture in Alberta. The University has the only Agriculture and Forestry Faculty in the province and is expected to be a leader in developing new technology. □

Ministerial Tour Negotiates Section of Research Spectrum

The Hon. Les Young, Minister of Technology, Research and Telecommunications (TRT), visited us on 22 April.

Mr. Young and a number of senior departmental officials got a close up view of a number of research projects, participated in a discussion of various technology transfer initiatives at the University involving industry and government and became acquainted with projects likely to

come TRT's way.

The Minister's first official tour of the University was a lengthy one—8:45 a.m. to 4 p.m.

The main focus, Bill MacDonald, Office of Research Services and tour organizer, told *Folio*, was on technology transfer, that is, where researchers are supported by industry, or working on research of direct or potential relevance to companies.

Mr. Young met and heard from

30 individuals representing five Faculties: Agriculture and Forestry, Engineering, Medicine, Pharmacy and Pharmaceutical Sciences and Science.

At a presentation to Mr. Young and Edmonton South MP Jim Edwards, Bob James, Chairman of the Department of Electrical Engineering, and others discussed the need for a national centre for electronic technology. □

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Andrew Stewart Prize Night is Cause for (Research) Celebration

Nine years ago this month, University Professor Henry Kreisel told the Friends of the University of Alberta that, in spite of present crises, the "central work of the University" would continue: "the teaching will go on, the learning will go on, the buildings will stand and the (North Saskatchewan) river will flow."

The tableau remains a striking one. In fact, looking at the "central work" now, Dr. Kreisel would see that the research portion has been strengthened by the establishment of a number of scholarships, including the Andrew Stewart Graduate Prize.

Initiated in the fall of 1985 by President Horowitz, the prize is awarded in direct recognition of excellence in research at the PhD level. The 20 full-time PhD candidates selected annually (there were more than 150 applicants this year) to receive the prize do themselves honor. The bestowing of the prize and the celebrating of research (this year, the date was 21 April) by the winners, their supervisors, and others does the University honor.

The prize is separate and distinct from the base budget. The sum of \$50,000 is given by donors annually; good times or bad the Stewart Prize will be given to deserving students. In 1987, they are: Stanley Backs, Sylvia Berg, David Burton, Swapan Chowdhury, Per Dalgard, Joseph Dulka, Gordon Finch, Chung Hee Hwang, Inger Lauridsen, Jo-Anne LeFevre, Donald Lemmen, Brenda Leskiw, Charles Lucy, Allan Reid, Gurinder Singh, Stephen Smith, Frances Sutherland, Koon Hoo Teo, Stephen Wall and Raija Warkentin.

All but Backs, Berg and Chowdhury attended the reception and dinner at the Faculty Club. Also present were the students' supervisors, representatives of Graduate Studies and Research and the Student Awards Office and other guests.

Backs' research is on ceramic materials and their structural application, for example, in automobile engines and turbines. He received his bachelor's and master's degrees here and started his PhD program in 1982.

Berg's research has taken her to London. Her thesis topic is "Romeo and Juliet on the Victorian and Edwardian Stage: Tradition and Revolution in Interpretation."

After studying at Dalhousie University and the University of Guelph, Burton returned to Alberta, his home province, and

began his PhD program in 1984. Under the supervision of W.B. McGill, he is working toward increasing the efficiency with which nitrogen is utilized in agriculture.

In accepting the prize for Chowdhury, Paul Kebarle (Chemistry) said his student, who had never been outside of Bangladesh before beginning his studies at Alberta in 1983, put in an average of 10 hours a day, seven days a week. Chowdhury is currently doing post-doctoral research in Toronto.

"The Beat Generation and the Russian New Wave" (with prose at the core) is Dalgard's thesis topic. The same applies to Ms. Lauridsen although she is studying the poetry that sprang out of the two movements. Both are Danes who studied at the Universities of Aarhus and Voronezh before coming to our University in 1982.

Dulka was born in Ohio. He studied at Bowling Green University in that state and at the University of Kentucky. His thesis topic is "Pre-optic Control of Reproduction in Male Goldfish."

The program had Finch "originating in Toronto" and the civil engineering student kidded that his mother would be disappointed because "she always thought I was born in Toronto." After completing his master's degree at the University of Alberta in 1984, Finch proceeded immediately into a PhD program.

Hwang has studied at Seoul National University and the University of Western Ontario. A computing science student, she is exploring ways of making computers as intelligent as people.

A native of Vancouver, LeFevre's field of study is cognitive psychology. Her thesis topic is "Functional Capacity as a Source of Individual Differences in Reading Skill." Her bachelor's and master's degrees were taken at the University of Alberta.

Lemmen, convinced that we have a limited understanding of high latitude environments, wants to bring the terrestrial and marine histories of Marvin Peninsula in the Northwest Territories into focus.

Leskiw began her PhD program here in 1983. Susan Jensen (Microbiology) is her supervisor; her thesis topic is "Cloning the Isopenicillin N Synthetase Gene From Streptomyces clavuligerus."

Analytical chemistry is Lucy's area of specialization. In a brief overview of his thesis topic

"Solvent Extraction in Segmented Flow Streams," he said his supervisor, F.F. Cantwell, "allowed me the time to learn from my own mistakes and this is the essence of research."

A native of Winnipeg, Reid has studied at the Universities of Saskatchewan, Waterloo, and Jagiellonian University in Poland. After completing a master's degree at the University of Alberta, he proceeded directly into a PhD program here. "Literature as Information and Cognition in Bakhtin and Lotman" is his thesis topic.

Singh received his bachelor's degree from the University of Delhi and master's degrees from the University of Delhi and Jawaharlal Nehru University. His research in Computing Science centres on the development of an improved (and less expensive) user interface management system.

Smith explained that he came to our University from his native Australia because of "Professor van Manen's (his supervisor) standing in the field." In his thesis topic

"Risk in the Playground," Smith looking at ways in which child can be taught to take risks in safety.

A student in the Department of Mining, Metallurgical and Petroleum Engineering, Sutherland's thesis topic is "Thermodynamic Measurements at High Temperatures with Solid Electrolytes."

Teo, a citizen of Singapore, received his undergraduate degree from the University of Essex. His PhD program is being carried out with computers and communications in mind; his thesis topic is "Electronic and Optical Properties of Silicon Doping Superlattices."

Wall commenced PhD studies at the University of Alberta in 1984. His supervisor is A.N. Belcastro (Physical Education); his thesis topic is "Carbohydrate and Thyroid Hormone Effects on Myosin Isozymes in Diabetic Rat Heart."

Anthropology student Warkentin lived in Zaire for 10 years and returned last year for a year of fieldwork. Her thesis topic is "The

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Volume Twenty-three
Number Thirty-seven

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Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.

Deadlines:

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.

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University
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ISSN 0015-5764
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CAAS 87

Down to the Wire: Are You Ready for Out of Edmonton?

Next week, Canada's Africanists converge on the University, to hold annual conference (for the first time) in Edmonton. The theme of CAAS 87 is threefold: crises, culture, development.

Day One: Thursday, 7 May

The opening session (9:45 a.m., P126 Physics) will be addressed by General Olusegun Obasanjo, former military head of Nigeria and a controversial interpreter of his country's post-colonial history. Reports follow, from pre-conference workshops on popular theatre, African music, economic and management development, African women's roles in development, agricultural systems, African development as taught in Alberta schools and African textile techniques. (11 a.m. to 12.30 p.m., P126).

Lunch-time speaker (12.30 p.m., Dinwoodie, SUB) is Wanjiku Kironjo, Nairobi-based director of Social-economic Development Services, talking on "Women and Children in Today's Africa."

Afternoon, the first 18 of the conference's 75 panel groups meet, between 2 and 5:30 p.m.

At 8 p.m., following a conference option, Obo "Magic Hands" Addy and his drumming ensemble present "The Music of Ghana," a gala of West African drumming (SUB Theatre. \$5 at door. Students and seniors \$3.)

Day Two: Friday, 8 May

Panel discussions, (held in V-Wing, Chemistry; P126 Physics; and CAB) occupy the 9 a.m. to 12:30 p.m. time slot.

Lunch-time speaker is Charles Bassett, Vice-President, Anglophone Africa Branch, Canadian International Development Agency, the man ultimately responsible for all of Canada's development assistance programs in non-francophone Africa and the Mideast. He talks on "Africa: Problems, Failures and Successes." He will be introduced by His Excellency Robert W. McLaren, Assistant Secretary-General of the Commonwealth.

Panel sessions in the afternoon (2 to 4:30).

A banquet in Lister Hall (7:30 p.m.) features Commonwealth Try prize-winner Niyi Osundare and Jean Perrin, of CIDA's Africa 2000 project as guest speakers. Nigerian artist Nike Olaniyi is to dance and sing. Then at 10 it's reggae and calypso time with Messenjah, the six-man powerhouse from T.O. (Dance till you drop, around 1 a.m.) Tickets: \$7, at door.

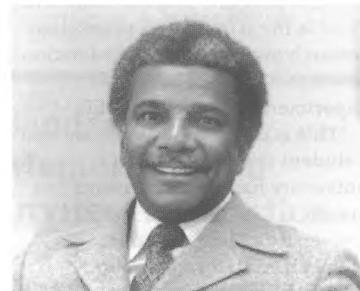


Day Three: Saturday, 9 May

The morning panel sessions run from 9 to 12:30. Then at Dinwoodie in SUB John Saul of York University discusses "Violence in South Africa: Is there an alternative?"

The last of the conference's 75 panels run from 2 to 3:30.

At 4, it's summing-up time for CAAS 87, with featured speakers Ali Mazrui ("The Africans: A Triple Heritage," a joint television production of the BBC, PBS, in association with the Nigerian Television Authority), Abdoulaye Bathily (Marxist history professor at Dakar University) and Wanjiku Kironjo.



Ali Mazrui

Film, Video Showing at CAAS 87

A fine lineup of film and video out of Africa has been organized by CAAS 87, ranging from Winnie and Nelson Mandela, through Sweet Sugar Rage, the highly-controversial Re-Assemblage and Myriam Makeba Sings. The film program starts Monday May 4, at 9 a.m., and runs through Saturday May 9, repeating each item. Friday May 8, there will be a special screening of "Camera d'Afrique: 20 Years of African Cinema" (7 p.m., SUB Theatre). A good introduction, through clips, to some of the very best African films. Tickets on sale at door. □

Drums, Harping Featured in African Music

To introduce West African music, CAAS 87 has been able —through CIDA—to bring the famous Gambian harpist Amadou Bansang Jobarteh to campus, along with ethnomusicologist Christopher Waterman. Waterman offers "Introducing West African Music" (10 a.m. to noon, Tuesday, 5 May.) Later the same day, Jobarteh presents "The Art of the Kora: a Master Harpist and his Songs" (2-4 p.m.) followed by a concert (8 p.m., Convocation Hall). Obo Addy presents "Music and Culture in Ghana: a Master Drummer and his Team" (10-12 noon, Wednesday, 6 May), then West African Drumming Styles (2-4, same day). Addy's concert is in SUB Theatre (8 p.m., Thursday, 7 May).

All workshops are held in 1-23 Fine Arts Building. Workshops cost \$10 for each day, at the door. The concerts are \$5 each (students and seniors \$3.)

The concerts are \$5 each (students and seniors \$3).

'Two Cultures' on a May Weekend

J. Gordin Kaplan, Professor of Biochemistry and Vice-President (Research), opens "Philosophy and Biology", Friday, 8 May.

The three-day conference, sponsored by the University's Philosophy Department and *The Canadian Journal of Philosophy*, will feature nine speakers on topics

including biology and morality, the technology of biological advance, the statistical side of the theory of natural selection, and "What is Evolutionary Altruism?"

Conference registration is \$10. All sessions are in L-4 Humanities Centre. For more information, call 432-3307. □

Tougher Road Ahead for Travelling Grads

More than 240 University graduates have benefited from their travel support fund since last September, says F.S. Chia, Dean of Graduate Studies and Research.

And although last year's \$50,000 budget was "far from adequate" some help is in sight, says the Dean. Alumni Affairs will contribute \$45,000 to next year's travel fund. Dean Chia is currently looking for ways to match this

amount, for a \$90,000 fund.

A glance at fund statistics shows the effects of popularity. Last September, 33 students were awarded an average of \$332. By March 1987, student participation was up to 80, averaging \$253 a trip. Even with \$90,000 next year, the travel fund's rules have to be tightened, says Dean Chia:

1. Full-time PhD students can now

apply only once during their program.

2. Only research trips with an immediate impact on thesis preparation will be funded.

3. Average awards will be reduced in size.

In the past seven months, the fund has paid more than \$91,000 towards the travelling expenses of 243 graduate students. □

Diet Project Wins Top Prize for Med Grad

Medical graduate student Catherine Field is the winner of a prestigious research award from the Federation of American Societies of Experimental Biology (FASEB).

"This is only the second time that a student from a Canadian university has won this award," says M.T. Clandinin, of the University's Nutrition and Metabolism Research Group.

Most FASEB members are U.S.-based institutions, and competition among them is extremely high, particularly at the graduate student level.

In Ms. Field's specialty area, the research prizes were awarded by

the American Institute of Nutrition whose judges selected her as a winner from 81 submissions.

Her presentation compared insulin functions in vegetarian and meat-eating diets and showed that these functions could be altered by feeding a high poly-unsaturated fat diet (fats derived from plant rather than animal sources.)

"Although we fed rats, their diet was similar to a human's," says Ms. Field, whose studies occur in the Department of Medicine's Gastroenterology Division.

Her expenses for the trip to FASEB's annual conference in Washington, D.C., were met by the

Alberta Heritage Foundation for Medical Research and the University's graduate student travel support fund. □

Historian Predicted Possibility of Chernobyl's Failure

Last year's Chernobyl nuclear disaster was predicted months in advance by Soviet specialist David Marples, a research associate with the Canadian Institute of Ukrainian Studies here.

The Ukraine's first n-plant had a long history of "quite serious problems," says Marples whose book on the subject was recently published in London.

The Chernobyl station couldn't maintain enough trained staff to keep pace with Soviet expansion plans, he says. Experienced workers were moved on to the Ukraine's second and third plants leaving Chernobyl with the least-qualified staff.

"You can trace the careers of these people, as they move," says the Soviet economic historian. Some of these "least-qualified" personnel, on the Saturday night of 26 April 1986, turned off the plant's safety devices and tried the unauthorized generator experiment

that triggered the massive environmental disaster.

Marples had predicted the possibility of Chernobyl's failure six months before it happened, in a research brief written for Radio Liberty in Munich, where he was then working.

And what of the aftermath? "Chernobyl seems to have sparked off a very serious inquiry into the problems of Soviet industry in general," he says. But the Three Mile Island inquiry is still going on, seven years after that event. "It will take a similar time before the Soviets really know what happened," he believes.

His book, *Chernobyl and Nuclear Power in the USSR*, is published in Canada by the Canadian Institute of Ukrainian Studies, in association with Macmillan of London and in New York by St. Martin's Press. □

Reprinted from Q and A, published by the University's Office of Public Affairs.

Always Room for More in Speakers' Bureau

The Office of Public Affairs is revitalizing and updating the University Speakers' Bureau.

Academic staff will have received a letter from Vice-President Allan Warrack which notes that "this community service is a vital element in the University's overall public affairs program aimed at increasing interaction with the community at large."

Public Affairs joins with Dr. Warrack in urging staff to complete the questionnaire and return it to 423 Athabasca Hall as soon as possible.

Your public—be it a community association, school or lay interest group—awaits. □

U. of Agers Evergreen

Suppleness at sixty? Nooooo problem for the U. of Agers, a performing gymnastics team of seniors.

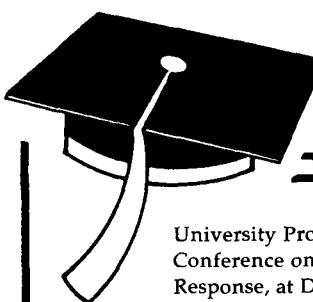
"The Agers (average age: 63) are exploring the possibility that age is not a barrier to doing many of the physical things from which we normally expect older adults to retire," says Sandy O'Brien (Physical Education and Sport Studies).

At a free public demonstration on 8 May, the agers will put their words to the test. (The demonstration starts at 5 p.m. in the Gymnastics Room (W-98), basement level of the Van Vliet

Physical Education Complex.)

The demonstration includes a walking routine called "Don't Break My Stride", rhythmic with ropes and ribbons, and basic gymnastics skills on the Olympic apparatus.

The U. of Agers have performed at a number of seniors' events and fitness conferences. Ahead lies Fitness Roundup in Banff, the Provincial Sportive Rhythmic Gymnastics Championships, the Alberta Teachers' Association and the Canadian Association on Gerontology Conference titled "Aging and Excellence." □



Activities

University Professor L.C. Green attended the Conference on International Terrorism: Challenge and Response, at Denver Law College, 3 and 4 April, and delivered an address on "Terrorism, Extradition and Political Offences" . . . Shelley Chapelski, Robin Clark, Louis Francescutti, Byron King, John Putters, and Shawna Lee Stonehouse will receive Charles S. Noble Awards for Student Leadership . . . Bruce Monkhouse recently set up a scholarship in the name of Harvey Zingle, outgoing Chairman of the Department of Educational Psychology. Dr. Monkhouse's \$1,000 contribution will be matched 2 for 1 by the provincial government. Any faculty or students interested in contributing are asked to telephone the Development Office, 432-3324.

Arrival of Mormon Settlers in Alberta and NWT Focus of Three-Day Conference

"The Mormon Presence in Canada, 1830, 1887 and 1987, A North-American Ethno-Religious People in Canadian Cultures" is the theme of a conference to be held at the University, 6 to 9 May. The conference marks the centennial of the arrival of Mormon settlers in the province and the Northwest Territories in 1887.

The conference is the first scholarly conference in Canada designed to increase social and historical knowledge about Mormons in our country. It will be interdisciplinary in nature; 21 sessions have been scheduled. Canadian and international scholars will be speaking on such topics as "Canadian Mormons as Ethnics: A Comparative View"; "The Canadian Mormon Woman: Historical to Contemporary"; "The Canadian Mormon from an Educational Perspective"; and "Mormons in Everyday Living: Matters of Health and Dying".

On 8 May at 7:30 p.m., a special panel discussion will bring together scholars and dignitaries who will respond to "Mainstream and Non-Mainstream Ethno-Religious Peoples in Canada: Toward A Reflexive Canadian Multiculturalism." The evening presentation, taking place in the

auditorium of the provincial museum, will see position papers presented by Jean R. Burnet, Professor of Sociology at York University; Keith Wilde, Planning Office, Agriculture Canada; and B.Y. Card, Professor Emeritus, Department of Educational Foundations, University of Alberta. Responses will be given by Mayor Laurence Decore; Douglas Bowie, Vice-President, Niagara Institute and former assistant minister of the Multiculturalism Directorate, Ministry of State; Jerry K. Loveland, Professor and Head of Behavioral Sciences and Director of the Institute for Polynesian Studies, Brigham Young University, Hawaii; and John W. Friessen, Professor, Educational Policy and Administrative Studies, University of Calgary. This session is open to the public and audience participation will be encouraged.

In addition to the plenary sessions, the conference will include informal talks on Mormon folk culture in Canada. From 6 to 8 May, registrants can hear discussions on "Mormon Drama as Folk Culture"; "Southern Alberta Sports as Folk Culture"; "Filming Mormon Life in Canada" as well as listening to music and viewing slide/sound presentations.

The conference is sponsored by the University of Alberta with the assistance of the Provincial Museum of Alberta, the Provincial Archives of Alberta and the Cardston Historical Society. Grants have also been received from Multiculturalism Canada and the

Social Sciences and Humanities Research Council.

Further information on the conference can be obtained from Herb Northcott, Professor of Sociology, 432-5234, or Dr. Card, 432-3726 or 431-1648.□

Education Grads Well Thought of

Of the six first-year teachers recommended for consideration as Edmonton Public Schools' nominee for the 1986-87 Edwin Parr Teacher Award, five are graduates of the Faculty of Education.

On 14 April, each nominee was recognized and Scott Trueman, now at Clara Tyner School, was selected by M.A. Strembitsky, Superintendent of Schools, to represent the district in the provincial competition. Trueman graduated with a BEd with Distinction in 1986.

The other nominees were: Jo-Ann Bartko, Russ Kelemen, Bill Godfrey and Joanne Moen, all of the University of Alberta, and Randy Montgomery, University of Calgary.

Last year, the award was won by Edmonton Public School teacher Jean Paccagnan, who is also a University of Alberta graduate.□

Sandra Garvie Memorial Fund Invites Applications

An annual award of up to \$1,000 in the name of the former librarian at the Legal Resource Centre of the Faculty of Extension is available to an individual planning to pursue study or to undertake research into library or information aspects of public legal education.

The object of the grant is to encourage research that serves to expand the body of knowledge in the field. Applicants may be enrolled in a formal course of study at a community college or university or can choose to undertake an independent learning activity.

The award, which will be made to a Canadian citizen or landed immigrant, will be based on financial need and the suitability of the proposed study or research. The applicant may apply for funds from other sources, and use the money from this fund for a portion of a larger project. The award will not normally be applicable to capital expenditures.

The trust fund was created in 1979 to honor Sandra Garvie and her contributions to the field of public legal education. The Sandra Garvie Memorial Award was created in September 1983 and has been awarded since.

To apply, submit a research proposal or proposed course of study together with a proposed budget by 30 June 1987 to Sandra Garvie Memorial Fund, c/o Ms. Lois E. Gander, Director, Legal Resource Centre, 10049 81 Avenue, Edmonton, Alberta, T6E 1W7.□



Donations Carry the Day

On 10 April, the Department of Animal Science conducted sneak previews of the Swine Research Facility at the Edmonton Research Station. About 60 swine producers from the Western Hog Producers Association toured the nearly completed facility and then attended a two-hour series of seminars presented by members of the department. During the day, Roy Berg (far right), Dean of Agriculture and Forestry, was presented with donations of approximately \$25,000 which will be applied to the cost of completing the facility. Pictured with the Dean are (from left) Bob Hardin (Animal Science); Don Gregorwich, President, Western Hog Growers; Frank Aherne (Animal Science); and Brian Perkins, Past President, Western Hog Growers. The official opening will take place on 12 June at noon.

Who Else Suffers?

How is a child affected—emotionally, intellectually, and in all other areas of life—when one parent has a chronic disease such as MS?

Children who have a parent with multiple sclerosis (MS) can't find answers to all the questions they want to ask about the disease and

their parent's condition. This lack of knowledge "seems to make the children vulnerable in terms of having a life of quality," says University of Alberta researcher June Kikuchi.

Kikuchi recently studied 32 children between the ages of six and seventeen in 28 two-parent families where one parent has MS,

to discover the quality of their life, how their needs are met, and how the needs not being met can be filled.

Taking the view that there are seven areas of life in which fulfillment is necessary for life to have "quality", Kikuchi found that the children on the whole have fulfillment to some degree in all seven areas. There was, however, least fulfillment in the area concerned with knowledge and emotions.

The children have a great need to know about MS and their parent's condition, Kikuchi learned. But they feel that asking questions might upset their parents, so they try and find the answers for themselves by watching TV programs and looking things up in the library. That leaves many questions still unanswered and so, Kikuchi found, the children become very watchful and observant of the parent's condition. Some worry about what causes MS; if it is hereditary; and how they would know if they're going to get it. One child even worried that yelling at her mother had "broken her nerves" and made her ill.

It's the painful feelings of sadness, fear, embarrassment and anger that seem to make the children emotionally vulnerable. They feel sadness for the sick parent, and for themselves that the sick parent can't do with them the things they used to (playing baseball, going to the hockey game). They are fearful of what will happen to the parent, and of what will happen to them if the parent gets worse and dies; and they are embarrassed and angry when people stare at the parent in the wheelchair or think the parent walking clumsily is drunk. There seems to be some anger, too, from older children towards the parent with MS who "isn't trying hard enough to get better" or who "uses me as legs".

Although the children observe closely and understand quite well the feelings of the MS parent, Kikuchi found that they don't know what other members of the family feel; and she noted that in most of the families there seems to be very little discussion about feelings.

Kikuchi sees this study as the first of several. "Other studies are needed to verify the findings," she says.* □

*Reprinted from Research Report, published by the University's Office of Public Affairs.

Continued from page two

Influence of Christian Missions on Children's Obedience." Originally from Finland, Warkentin has attended the University of Helsinki and the University of British Columbia.

After each prizewinner had given a short address, Stephen Arnold, Associate Dean of Graduate Studies and Research, spoke of the generosity of Mrs. Stewart (she has donated a number of African books and works of art to the University) and, in view of the difficulty the University Library is experiencing in keeping up its collections, urged the scholars to buy books with the Library in mind. □

Senate Committee Grateful to Academic Staff

Folio received the following missive from Jean Oshry, Chair, Senate Status of Women Progress Review Committee. Members of the Senate Status of Women Progress Review Committee were very gratified with the excellent participation rate in the recent survey conducted in conjunction with Institutional Research and Planning. More than

1,000 members of the academic staff have completed and returned the questionnaires.

Sincere appreciation is extended to all of you who devoted the time and thought to this important matter.

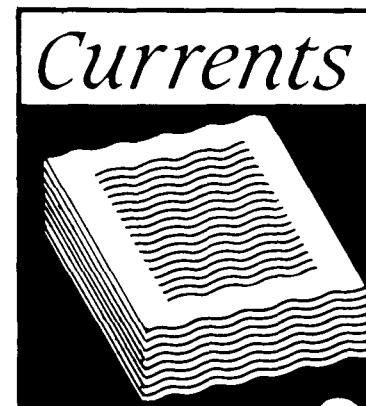
Presentation of the Progress Report to the Senate is expected in November. □

Replenishment of GFC Standing Committees 1987

The terms of office of a number of staff members on GFC standing committees and bodies with membership elected by GFC will expire on 30 June 1987. During the coming weeks, the Nominating Committee will be seeking replacements for these members, and for those members whose terms of office might be interrupted by study leave during 1987-88. Vacancies will occur on the following Committees:

GFC Executive Committee (nominees must be members of GFC)
Academic Appeals Committee: Regular and Alternate members
Academic Development Committee
Admissions and Transfer Committee
Computing Committee
Department Chairmen Selection Committee: Panel of Members
Facilities Development Committee
Faculty Tenure Committees: Nominees must be tenured
General Salaries and Promotions Committee
Library Committee
Planning and Priorities Committee
The Senate
Special Sessions Committee
Committee for Improvement of Teaching and Learning
Undergraduate Scholarship Committee
Undergraduate Teaching Awards Committee
Universities Co-ordinating Council
University Disciplinary Panels
University Professors Selection Committee
Writing Competence Committee
Writing Competence Petitions Committee: Alternates

Membership is not restricted to members of GFC unless specified. The terms of office for staff members are for periods of up to three years, commencing 1 July 1987. The Nominating Committee will be pleased to hear from those who have suggestions for nominations or who would be interested in serving on the above committees. Those people are asked to communicate with Mrs. P. Plaskitt, Nominating Committee Coordinator, 2-5 University Hall (432-4715), who will be pleased to provide any further information. Alternatively, written nominations may be sent and should be accompanied by a vita.



Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), the Office of the Comptroller is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee. In preparation for this second phase, PACCR invites written comment prior to 22 May 1987. Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee.

Submissions should be sent to: Mrs. Shirley Moore, Coordinator, PACCR Office, W4-13 Chemistry Building, Attention: The Office of the Comptroller Unit Review Committee.

Devonian Botanic Garden Open to the Public

The University of Alberta Devonian Botanic Garden is open to the public daily (10 a.m. to 6 p.m.) from May to September.

The Garden maintains a labelled and attractively landscaped collection of plants hardy in central Alberta. As well, nature trails abound.

The Garden is situated on Highway 60, 4.8 km north of Devon.

Reception to Honor Henry Kreisel

The Department of Comparative Literature will hold a reception to honor Henry Kreisel's retirement on Wednesday, 6 May, at 4 p.m. in the Heritage Lounge, Athabasca Hall. Students, friends and colleagues of Dr. Kreisel are invited to attend. Contributions are most welcome and can be made by contacting Winnie Ng or Bev Ethier at 432-4926.

Talks

Cross Cancer Institute

1 May, noon. G.E. Adams, Director, Medical Research Council's Radiobiology Unit, Harwell, England, "Mechanisms of Action and Applications for Bioreductive Drugs." Auditorium, Cross Cancer Institute.

Physics

4 May, 3:30 p.m. J.P. Whitehead, Memorial University, "Superconductivity in Inhomogeneous Media." 631 Physics Building.
6 May, 3:30 p.m. J. Czerwonko, Université de Sherbrooke, "Dynamic Spin Response of Normal Fermi Liquids in DC Magnetic Fields." 631 Physics Building.
7 May, 3:30 p.m. P. Coleman, Rutgers University, "Questions Raised, Less Than Learnt From the Anomalous Low Temperature Properties of Heavy Fermion Compounds." 631 Physics Building.

Biochemistry

4 May, 4 p.m. Elisha Haas, Department of Life Sciences, Bar Ilan University, and Department of Biophysics, Weizmann Institute of Science, Israel, "Protein Folding and Dynamics Studied by Fluorescence." 4-70 Medical Sciences Building.

Philosophy

5 May, 3:30 p.m. David Cooper, University of Durham, "Assertion and the Phenomenology of Communication." 4-20 Humanities Centre

Boreal Institute for Northern Studies

6 May, 2 p.m. Ivar Bjorklund, Tromso Museum, Norway, "From Pastoralism to Ranching: On Sami Reindeer Herding in Northern Norway." CW-410 Biological Sciences Centre.

Sociology

8 May, noon. James Rinehart, "Quality of Work Life (QWL) Programs: A Critical Analysis." 5-15 Tory Building. Co-sponsored by Arts and Organizational Analysis.

Edmonton Map Society

12 May, 7:30 p.m. Iain Taylor, Associate Professor, Geography, Athabasca University, "Origins and Development of the British Ordnance Survey From its 18th Century Origins to the End of the 19th Century." B-7 Tory Building.

The Arts

Exhibitions

FAB Gallery

Until 3 May. "A Tree is a Tree is a Tree?"—an exhibit created by Virginia Peppiatt. Until May. An exhibition of paintings by Linda Rogers.

Ring House Gallery

Until 24 May. "Takao Tanabe—Banner Commission"—the working drawings and plans for the 1973 public art commission of the 56 silk banners which hang in the well between the second and fourth floors of the Humanities Centre.

Bruce Peel Special Collections

Until 29 May. "Books Are/Books Are Not: Two Decades of Bookworks and Artists' Books, With Some Historical Precedents"—a colorful look at the remarkable things that have happened to books since the 1960s. Includes books that are wordless, altered, pop-up and fold-out. Hours: Monday to Friday—8:30 a.m. to 4:30 p.m. B7 Rutherford South.

Music

7 May, 8 p.m. Recital—Tanya Prochazka, cello, and Janet Scott-Hoyt, piano. Convocation Hall.

Broadcasts

CJSR-FM

Eclectic programming, including folk, jazz, new music, rock and U of A news and sports coverage. See *Airtight* magazine for full programming details. Send public service announcements to 224 SUB, 432-5244.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Director, International Student Affairs

Applications are invited for the position of Director, International Student Affairs. Reporting to the Dean of Student Services, the Director is accountable for the direction, control and coordination of services and programs for foreign students, the promotion of international programs for all students, and ensuring the implementation of the University's International Student Policy.

Applicants should have experience working in an advisory capacity with international students and be knowledgeable about the academic and administrative environment of the University. Administrative experience in a similar or related field is desirable.

The position is that of an administrative professional officer with a salary range of \$27,954 to \$41,934. The appointment will take effect 1 July 1987.

Applications together with the names of three referees should be submitted to: Dr. P.J. Miller, Dean, Student Services, 300 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

Closing date for applications is 20 May 1987.

Before applying, please contact Norma Sharpe, Office of the Dean of Student Services, 432-2968.

Department of Educational Administration

The Department of Educational Administration invites applications for a tenure-track position at the Assistant Professor rank. Salary range is \$31,162 to \$45,340 with emphasis upon the lower end of the range. Appointment for 1 September 1987.

Applicants will be expected to demonstrate exceptional scholarly promise.

Consideration will be given to applicants who possess a strong interest in advancing theoretical developments

in Educational Administration. Preference will be given to those who can present a well-planned research program, show success in research publication, and otherwise demonstrate knowledge of research design and procedures.

The applicant's preparation should provide evidence of sufficient breadth and depth to demonstrate suitability for teaching in at least two of the specialized areas of Educational Administration.

Applicants will forward the following materials:

1. A letter of application.
2. A brief statement of how the applicant meets the above criteria.
3. A transcript of courses in the applicant's graduate programs.
4. A copy of the title page and the abstract of the applicant's PhD dissertation.
5. A recent *curriculum vitae*.
6. Copies of published articles and other relevant documents.
7. Names and current addresses of three referees.

These materials should be directed to Dr. C.S. Bumbarger, Chairman, Department of Educational Administration, University of Alberta, Edmonton, Alberta T6G 2G5.

The closing date is 15 July 1987; all documentary material must have been received by that date.

Librarian, Legal Resource Centre, Faculty of Extension

The University of Alberta invites applications for Librarian for the Legal Resource Centre. Responsibilities include over-all administration of the library, provision of public services, and supervision of technical services.

The successful candidate will have a degree in Library Science and several years progressive experience in library administration and service. Formal training in law or equivalent experience preferred. Experience in a public or school library setting or community service an asset. Experience in working with computers in a library context an asset.

Salary range: \$31,612 to \$40,764.

Applicants should send a current *curriculum vitae* to Lois Gander, Director, Legal Resource Centre, 10049 81 Avenue, Edmonton, Alberta T6E 1W7, by 15 June 1987.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 24 April 1987. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Administrative Clerk (Term - 2 July-31 December), Music, (\$1,522-\$1,945)

Departmental/Executive Secretary, Personnel Services and Staff Relations, (\$1,716-\$2,208)

Departmental/Executive Secretary (Term - 3 August-1 February), Music, (\$1,716-\$2,208)

Technician I (Trust), Physiology, (\$1,580-\$2,027)

Technician I (Trust), Animal Science, (\$1,580-\$2,027)

Technician I/Technologist I (Trust), Medicine (Endo. and Metab.), (\$1,580-\$2,510)

For vacant Library positions, telephone 432-3339.

Advertisements

Accommodations available

Rent - University area, furnished, one-bedroom and bachelor suite, quiet. \$400. 433-6024.

Sale - Lakefront, log cabin. Muriel Lake. 30'x32', three bedrooms, loft, boathouse, clay tennis court, garden. \$94,500. Phone 433-4870.

Rent - One-bedroom condominium, 118 St. Jasper Avenue. Fireplace, balcony, heated parking, washer, dryer, dishwasher, etc. \$475 including condo fee. 432-2643, 437-4937.

Sale - Two-bedroom bungalow on 1 1/2 lots. Renovated, new furnace, sauna, separate suite in basement, fifteen-minute walk to University. \$79,500. Phone 438-4933.

For rent - Large bachelor, \$340-\$355. One bedroom, \$395-\$398. Two bedrooms, \$495-\$498. Includes all utilities. Minimum four months lease, discount for one year lease. Appointment necessary. Phone 433-1676.

Sale - Sensational condominiums, 11016 86 Ave. Contemporary, multi-level with fireplaces, skylights, European cabinets. Only six left. \$77,900 to \$86,900. Walk by today! Joy Murray, NRS Realty Centre. 438-6111.

Sale - Immaculate condominium in Riverbed. \$51,300. Over 1,000 sq. ft., two bedrooms, two bathrooms, spacious living room, storage room, large balcony. Covered parking. Terrific value. Joy Murray, NRS Realty. 438-6111.

Sublet - One-bedroom apartment, furnished. After 15 May. College Plaza. A.M. Schrader, 439-9625.

Sale - River valley home. Close to University and parks, 1 1/2-storey home with self-contained loft apartment. Call 425-9817 after 5:30 p.m.

Sale - In the city of Edmonton, close to golf course, four lots, each over one acre, overlooking river valley. Real bargain, call Cana Realty, 469-7172.

Rent - London, U.K. Superior, one-bedroom flat on 22nd floor of prestigious, centrally-located building. Sweeping view of Hyde Park and fabulous skyline. Available 1 October for 8/9 months. £800 pcm. 432-5070.

Sublet - Large duplex apartment for 2-2 1/2 months, starting 1 June. Pay half our \$775 rent. Phone 433-7792.

Sale or rent to own - Two-bedroom condominium. Quiet neighborhood, walk to University or Southgate. Immaculate condition, nice grounds, fresh paint. Call 464-4676.

Rent - Brighton. Large, three-bedroom family home. Quiet neighborhood, ten minutes to campus. Furnished, appliances. Family room, fireplace, double garage. Large, treed yard. September 1987-June 1988. Non-smokers. 466-1487.

Sale - By owner, three-bedroom bungalow. Double and single garage. Developed basement as one-bedroom suite. University area. \$77,000 for quick sale, no agents. 436-3645 or message on answering machine.

Rent - St. Albert, St. Vital Ave. Three-bedroom bungalow, fully furnished, fireplace, family room. Double garage, deck, fenced yard, microwave. August, one-year lease. \$750/month. Western Relocation, 438-1044.

Rent - Three-bedroom, two-storey, McKernan house. Attached, heated garage. Finished basement, furnished. \$600/month. Phone Ken, 434-6255. Marion, 467-5728.

Sale - Parkallen. Three-bedroom home. Immediate possession. Quiet street. \$71,000. Ask for Pat von Borstel, 436-5250, 437-6540, Spencer Real Estate.

Sale - Grandview. South backyard, quiet crescent. Immediately available. Three bedrooms and study. Call Pat von Borstel, 436-5250, 437-6540, Spencer Real Estate.

Rent - Large, semi-furnished, bi-level home, Aspen Gardens. Completely finished ground level. Four bedrooms, 2 1/2 baths. \$800 monthly. Available 15 August 1987 to August 1988. 464-1737.

Sale - Land. 70 acres with custom-built bungalow. Property adjoins south city limits. For details, call Chris Tenove, 433-5664, 436-5250, Spencer Realtor.

Sale - Glenora-Westmount. Well-built home. Hardwood floors, very good location. Chris Tenove, 433-5664, 436-5250, Spencer Realtor.

Sale - Large lots. \$39,750 up. Some ravine. Chris Tenove, 433-5664, 436-5250, Spencer Realtor.

Sale - Lakefront acreages. Miquelon. Five choices, \$6,000 each. Chris Tenove, 433-5664, 436-5250, Spencer Realtor.

Sale - North Windsor Park. Five-bedroom home, hardwood floors. Excellent University location. Chris Tenove, 433-5664, 436-5250, Spencer Realtor.

Sale - Garneau. Gracious, 2 1/2-storey home. Beautiful 350 sq. ft. solarium, lots of character, French doors, hardwood floors, numerous renovations. Call Mercedes, 462-5000, Re/Max Real Estate.

Sale - Just listed, Blue Quill, a jewel! Four bedrooms, homemaker's dream kitchen, quiet crescent, neutral decor. Call Joyce Byrne, 435-6064, 436-5250, Spencer Realtor.

Sale - Fine family home. Four bedrooms, easy access University. Oak floors, south exposure, reduced \$76,500. Call Joyce Byrne, 435-6064, 436-5250, Spencer Realtor.

Sale - Grandview. \$139,000. 1,740', open beam, three-bedroom home with main floor family room, den, laundry, fireplace, attached double garage, south garden. Eleanor Duncan, Royal LePage, 434-7368, 438-4700.

Sale - Five bedrooms, two storeys, convenient to University, large treed lot, solarium adjacent to dining room, spacious family room. C.A. Brown, Spencer Realty, 436-2545, 436-5250.

Rent - Renovated country house. Fireplace, carpeting. South of Stony Plain on North Saskatchewan River. Unique and private among small community of University scholars. Robert, 963-5777.

Sale - Viewpoint. River valley ravine. 2,500', two storeys, four bedrooms, three baths, family room, pool, secluded park setting, handy to campus. Motivated vendor, 428-9232.

Accommodations wanted

Visiting scholar on study leave wishes to rent fully furnished, three-bedroom house in University area from 1 August 1987 for one year. Call 432-5590 (Law). Research associate, wife and two small children would like to house-sit or rent a three-bedroom house, commencing 1 September. We don't drink or smoke. 1-335-9738 (Didsbury). Quiet, responsible, visiting professor will sublet furnished apartment for coming academic year. Phone collect (604) 385-6061.

Automobiles and others

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Goods for sale

Cash paid for appliances, 432-0272.

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Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

City Secretarial Service, 432-0138. Theses (word processed) \$18/hour. Electronic scanning \$3/page. Typing (double space/10 pitch) \$1.75/page.

Editing and research assistance by University grad. (MA English, BComm). 434-8975.

Professional typist, word processing. Specializing in theses, dissertations, manuscripts. Gwen, 467-9064.

Tax returns - U.S. or Canadian. Eberlein Consulting, 434-0563.

Residential contractors, design, additions, renovations, new homes. Innovation Plus Developments Limited. 437-6917.

Will do typing, 14 years' experience, reasonable rate. Call 467-1180.

Keep-fit yoga for health and relaxation, starts 12 May, classes Tuesdays. Ten weeks. \$10 registration 5 p.m. 12 May, Room 9, Floor 14, Tory Building. Information: Carold, 471-2989 evenings.

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